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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/594,553	09/02/2008	Gerold Endert	29627-221N01US	3552		
35437 7590 01/20/2011 MINTZ LEVIN COHN FERRIS GLOVSKY & POPEO ONE FINANCIAL CENTER			EXAM	EXAMINER		
			KELLY, ROBERT M			
BOSTON, MA	02111		ART UNIT	PAPER NUMBER		
			1633	•		
			MAIL DATE	DELIVERY MODE		
			01/20/2011	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/594,553	ENDERT ET AL.	
Examiner	Art Unit	
ROBERT M. KELLY	1633	

	HOBERT M. KELLY	1633					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Exercisors of time may be available under the provisions of 37 CPR 1.38 - It is not seen to be a seen t	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tin Ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this co ID (35 U.S.C. § 133).					
Status							
 Responsive to communication(s) filed on <u>14 Ja</u> 							
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.						
 Since this application is in condition for allowant 	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 46-57 is/are pending in the application							
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
 Claim(s) is/are rejected. 							
7) Claim(s) is/are objected to.							
8) ☑ Claim(s) 46-57 are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner							
10) The drawing(s) filed on is/are: a) acce	pted or b) objected to by the I	Examiner.					
Applicant may not request that any objection to the o	lrawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).					
a) All b) Some * c) None of:							
Certified copies of the priority documents		11-					
2. Certified copies of the priority documents			04				
Copies of the certified copies of the prior	•	o in this National	Stage				
application from the International Bureau	, , , , , , , , , , , , , , , , , , , ,	. al					
* See the attached detailed Office action for a list of	or the certified copies not receive	ıa.					
Attachment(s)							
1) Notice of Peferences Cited (PTO 892)	4) Interview Summary	(PTO-413)					

Attachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
Information Disclosure Statement(s) (PTO/SB/08)	 ivotice of informal Patent Application 	
Paper No(s)/Mail Date	6) Other:	

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DETAILED ACTION

Claims 46-57 are presently pending and subject to the following restriction and/or species election requirements.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 46-53, drawn to lipsomes comprising 10-60 mole % neutral lipid, 30-50 mol % cholesterol, and either 5-30 mol % amphoteric lipids, or mixtures of cationic and anionic lipids at 50 mol % maximum, encapsulating at least one nucleotide in an aqueous interior.

Group II, claim(s) 54-57, drawn to methods of treating a mammal with a composition comprising the structure of Claim 1, and a drug.

The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

U.S. Patent No. 6,649,780 to Eibl et al., teaches compositions of liposomes which are particularly preferred to be DOPE, DLPE and CHOL, with CHOL being preferred for delivery of nucleic acids (Section Entitled "Lipid Vesicle Compositions". The relative amounts lack an inventive step, as the Practitioner would optimize the amounts for their delivery, and necessarily reach the same relative amounts Applicant claims. Hence, the special technical feature is taught. Moreover, the compositions may also be utilized to solubilize membrane proteins, and the methods may be performed with other compositions for delivery. Hence, the search for one would not necessarily yield the Art and information to search and examine the other invention. Hence, there exists no general inventive concept within these claims.

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This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Applicant is required to choose a single form of oligonucleotide from those of DNA, RNA, chemically modified DNA, or chemically modified RNA, from Claim 48.

Applicant is required to choose a single form of nucleic acid from those of antisense, RNAi, decoy, aptamer or spiegelmer, from Claims 50-52.

Applicant is required to choose a single composition of Claim 53.

The Examiner notes that election of non-commensurate species will lead to rejections for non-operability, rather than forcing consideration of more embodiments.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise require all the limitations of an allowed generic claim. Currently, the following claim(s) are generic: all claims are generic in one aspect or another.

REQUIREMENT FOR UNITY OF INVENTION

As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

WHEN CLAIMS ARE DIRECTED TO MULTIPLE CATEGORIES OF INVENTIONS

As provided in 37 CFR 1.475(b), a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:

- (1) A product and a process specially adapted for the manufacture of said product; or
- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or

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(4) A process and an apparatus or means specifically designed for carrying out the said process; or

(5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof. Applicant may submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art,

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the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. <u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be

amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT M. KELLY whose telephone number is (571)272-0729. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert M Kelly/ Primary Examiner, Art Unit 1633